AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-29 (Canceled).

30. (Currently Amended) A device for measuring fluids in a body, comprising:

an inlet portion for receiving dialysis fluid;

a supply tube coupled to the inlet portion ~~for conducting~~ adapted to conduct the dialysis fluid through [[a]] the skin surface and subcutaneously, wherein the supply tube includes a porous membrane through which constituents of fluids in the body are picked up by the dialysis fluid flowing through the supply tube;

a discharge tube adapted to be subcutaneously coupled to the supply tube for conducting the dialysis fluid containing constituents from the fluids of the body out through the skin surface, wherein the discharge tube is adapted to be positioned substantially perpendicular to the skin surface and includes a porous membrane through which the constituents of fluids in the body are picked up by the dialysis fluid flowing through the discharge tube;

a supporting plate adapted to be positioned substantially parallel to the skin surface and having a lower surface adapted to be positioned against the skin surface and an upper surface ~~facing~~ adapted to face away from the skin surface, wherein the supply tube and the discharge tube are adapted to flow through the support plate in a direction substantially perpendicular to the skin surface;

an outlet portion positioned on the upper surface of the supporting plate and coupled to the discharge tube at a joint portion positioned on the upper surface of the supporting plate, wherein the dialysis fluid containing constituents flows from the discharge tube to the outlet portion through the joint portion;

a valve positioned in the discharge tube adjacent to the joint portion for preventing a reverse flow of the dialysis fluid into the discharge tube; and

a sensor for measuring attributes of fluids in the body, wherein the sensor is positioned adjacent to the valve in the joint portion between the discharge tube and the outlet portion.

31. (Previously Presented) The device of claim 30, wherein the sensor is arranged such that the sensor is removable.

32-38. (Canceled)